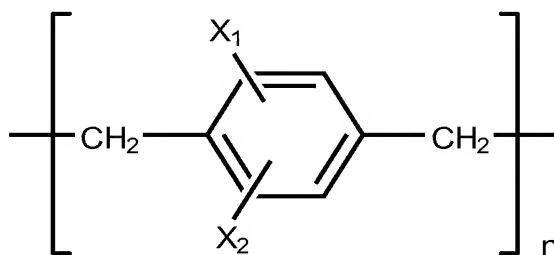


## Claims

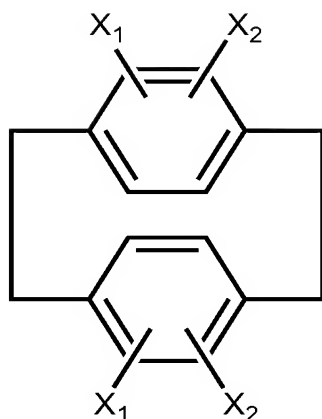
1. A method for improving the heat stability of polyparaxylylene and a derivative film thereof wherein when the polyparaxylylene or the derivative film thereof represented by a below-described general formula 1 is formed by a chemical vapor deposition method, an amino-(2.2)-paracyclophane compound represented by a below-described general formula 3 is mixed in a (2.2)-paracyclophane compound represented by a below-described general formula 2 to form a film.

General formula 1



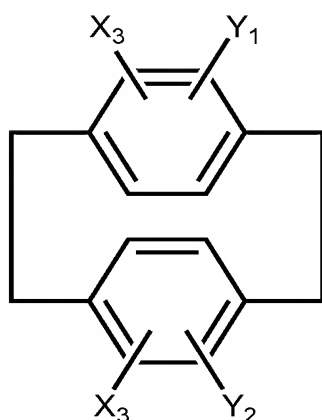
(In the formula 1, X<sub>1</sub> and X<sub>2</sub> designate hydrogen, lower alkyl or halogen. X<sub>1</sub> and X<sub>2</sub> may be the same or different. n represents a degree of polymerization.)

General formula 2



(In the formula 2,  $X_1$  and  $X_2$  have the same meanings as those of the formula 1.)

General formula 3



(In the formula 3,  $X_3$  designates hydrogen or a lower alkyl group.  $Y_1$  and  $Y_2$  designate hydrogen or an amino group and both  $Y_1$  and  $Y_2$  are not hydrogens at the same time.)

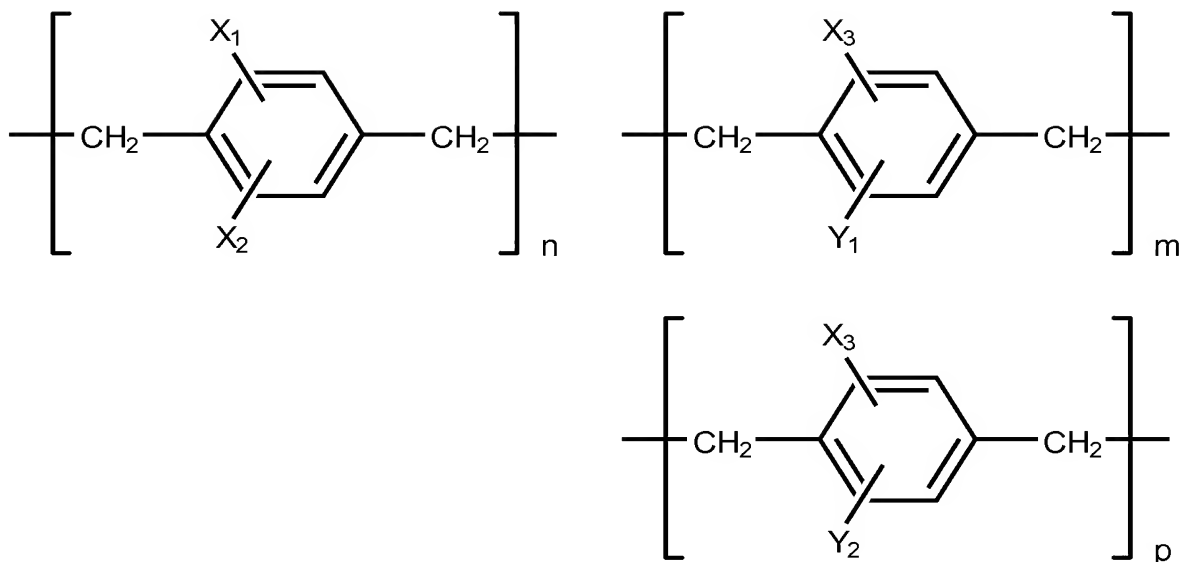
2. The method for improving the heat stability of polyparaxylylene and a derivative film thereof according to claim 1, wherein the polyparaxylylene and the derivative film thereof is a film of polyparaxylylene (in the general formula 1,  $X_1$

and  $X_2$  = hydrogen), polymonochloroparaxylylene (in the general formula 1,  $X_1$  = hydrogen and  $X_2$  = chlorine) or polydichloroparaxylylene (in the general formula 1,  $X_1$  and  $X_2$  = chlorine).

3. The method for improving the heat stability of polyparaxylylene and a derivative film thereof according to claim 1 or 2, wherein the amino-(2.2)-paracyclophane compound is a monoamino-(2.2)-paracyclophane (in the general formula 3,  $Y_1$  = hydrogen and  $Y_2$  = amino group) or a diamino-(2.2)-paracyclophane (in the general formula 3,  $Y_1$  and  $Y_2$  = amino group).

4. A polyparaxylylene derivative represented by a below-described general formula 4.

General formula 4



(In the formula 4,  $\text{X}_1$  and  $\text{X}_2$  designate hydrogen, lower alkyl or halogen.  $\text{X}_1$  and  $\text{X}_2$  may be the same or different.  $\text{X}_3$  designates hydrogen or a lower alkyl group.  $\text{Y}_1$  and  $\text{Y}_2$  designate hydrogen or an amino group and both  $\text{Y}_1$  and  $\text{Y}_2$  are not hydrogens at the same time.  $n$ ,  $m$  and  $p$  designate a degree of polymerization.)

5. The polyparaxylylene derivative according to claim 4, wherein a thin film is formed.